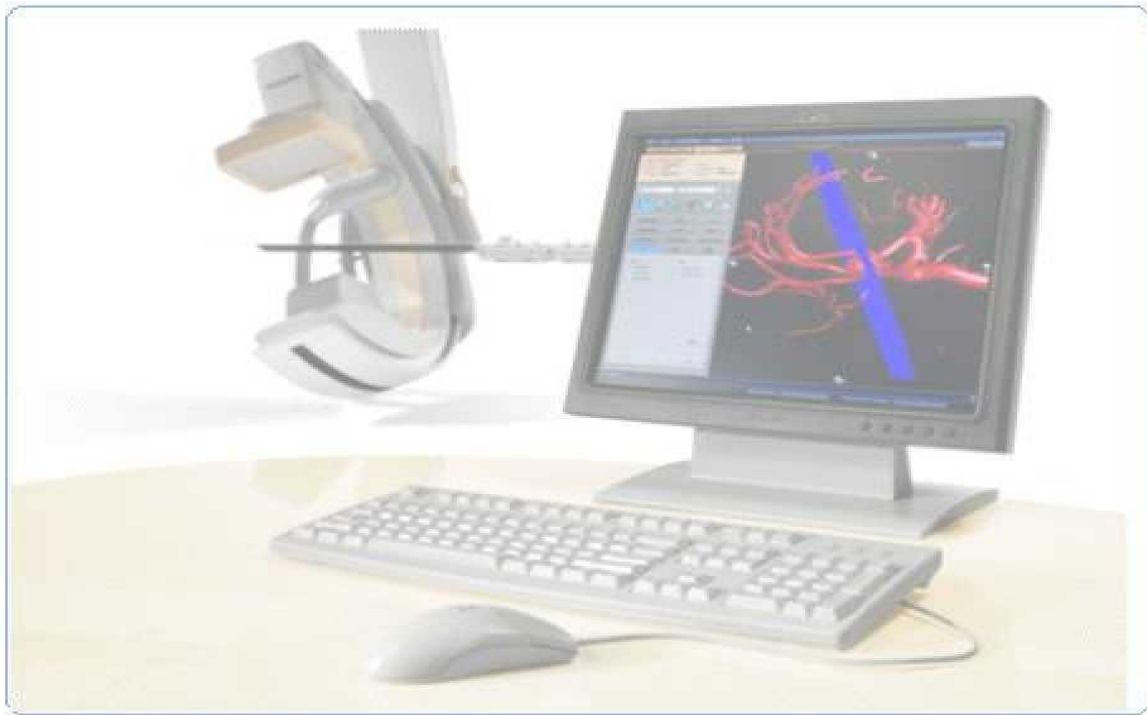


DICOM Conformance Statement

Application Annex:

CT TrueView 2.0(L40)

On Interventional Workspot R1.6



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1. Introduction

This DICOM Conformance Statement annex is applicable to CT TrueView 2.0(L40) Application, later referred to as CT TrueView Application. In general the CT TrueView Application is the user environment for viewing and analyzing XA and CT images. CT TrueView creates a 3D reconstruction of the coronary vessel tree based on a pre-acquired CT dataset. The 3D model provides a clear visualization of the coronary vessel tree that may help prevent the misrepresentations of vessel length and position that occur with 2D images. This 3D cardiac imaging tool can be used to select the optimal viewing angle without using additional radiation.

1.1. Revision History

The revision history below provides dates and differences among individual document versions.

Table 1: Revision History

Document Version	Date of Issue	Status	Description
00	02-March-2020	Approved	Final Version

1.2. Terminology

DICOM	Digital Imaging and Communications in Medicine
IOD	Information Object Definition
UID	Unique Identifier
VR	Value Representation
CT	Computed Tomography
XA	X-Ray Angiography

2. Data Specifications

2.1. Supported IOD's

This section specifies each IOD accepted and / or created by CT TrueView Application.

- ACCEPTED** The applicable IOD is accepted for storage in the repository of the hosting platform and supported for import of CT TrueView 2.0(L40) Application for viewing and analysis.
- CREATED** The CT TrueView Application supports generation of Derived data by using the applicable IOD and is able to store this data in the repository of the hosting platform.

Table 2: Supported IOD's

IOD		Support	
Name	UID	ACCEPTED	CREATED
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66	No	Yes
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	No	Yes
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Yes	Yes
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Yes	No
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	No	Yes

2.1.1. Acceptance Criteria

This section specifies the acceptance criteria applied by CT TrueView Application to which a dataset should adhere before it can be imported into the application. This can be criteria on the highest level (e.g. data from a certain manufacturer or system model) or certain DICOM attributes mandatory to be present into the dataset holding a specific value. In case one or more Philips private attributes are required, then a list of supported Philips system models will be mentioned.

Table 3: Accepted system models.

Manufacturer	Modality	System Model Name(s)
Not applicable	Not applicable	Not applicable

Table 4: Accepted transfer syntaxes per IOD

IOD		Transfer Syntax	
Name	UID	Name	UID
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Big Endian	1.2.840.10008.1.2.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
		RLE Lossless	1.2.840.10008.1.2.5
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Big Endian	1.2.840.10008.1.2.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90

	JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50
	JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51
	JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
	RLE Lossless	1.2.840.10008.1.2.5

Table 5: Accepted attribute values

Attribute Name	Attribute Number	Values / Comments
Not applicable	Not applicable	Not applicable

2.1.2. Contents of Created IOD's

This section specifies in detail the attribute contents of created data objects. Attributes are grouped together by its corresponding module as specified by DICOM standard. Philips private attributes are excluded for specification.

Abbreviations used in the Module table for the column "Presence of Value" are:

ALWAYS	The attribute is always present with a value
EMPTY	The attribute is always present without any value (attribute sent zero length)
VNAP	The attribute is always present and its Value is Not Always Present (attribute sent zero length if no value is present)
ANAP	The attribute is present under specified condition – if present then it will always have a value

The abbreviations used in the Module table for the column "Source" are:

AUTO	The attribute value is generated automatically
CONFIG	The attribute value source is a configurable parameter
COPY	The attribute value source is another SOP instance
FIXED	The attribute value is hard-coded in the application
IMPLICIT	The attribute value source is a user-implicit setting
MPPS	The attribute value is the same as that use for Modality Performed Procedure Step
MWL	The attribute value source is a Modality Worklist
USER	The attribute value source is explicit user input

2.1.2.1. List of created SOP Classes

Table 6: List of created SOP Classes

SOP Class Name	SOP Class UID
Raw data Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.66
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7
Multiframe True Color Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.4

2.1.2.2. Raw data Storage SOP class

Table 7: IOD of Created Raw Data Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
Frame of Reference	Frame of Reference	OPTIONAL
Equipment	General Equipment Module	ALWAYS
Image	Acquisition Context Module	ALWAYS
	Raw Data Module	ALWAYS

SOP Common Module

ALWAYS

Table 8 : Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		ALWAYS	COPY	copied from source data
Patient ID	0010,0020	LO		ALWAYS	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		VNAP	COPY	copied from source data
Patient's Sex	0010,0040	CS		ALWAYS	COPY	

Table 9 : General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	copied from source data
Study Time	0008,0030	TM		ALWAYS	COPY	copied from source data
Referring Physician's Name	0008,0090	PN		VNAP	COPY	copied from source data
Study Instance UID	0020,000D	UI		ALWAYS	COPY	copied from source data
Study ID	0020,0010	SH		ALWAYS	COPY	copied from source data
Accession Number	0008,0050	SH		EMPTY	COPY, USER	copied from source data

Table 10 : General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP	COPY	copied from source data
Series Time	0008,0031	TM		ANAP	COPY	copied from source data
Modality	0008,0060	CS		ALWAYS	COPY	copied from source data
Series Description	0008,103E	LO		ANAP		
Performing Physicians' name	0008,1050	PN		ANAP		
Related Series Sequence	0008,1250	SQ		ANAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP		
Series Instance UID	0020,000E	UI		ALWAYS		
Series Number	0020,0011	IS		VNAP	COPY	copied from source data
Laterality	0020,0060	CS		ANAP		
Performed Procedure Step Start Date	0040,0244	DA		ANAP		
Performed Procedure Step Start Time	0040,0245	TM		ANAP		

Performed Procedure Step ID	0040,0253	SH		ANAP		
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Table 11: Frame of Reference Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame of Reference UID	0020,0052	UI		ALWAYS	COPY	copied from source data
Position Reference Indicator	0020,1040	LO		VNAP	COPY	copied from source data

Table 12: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	VNAP	FIXED	
Institution Name	0008,0080	LO		ANAP	USER	
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ANAP	FIXED	
Device Serial Number	0018,1000	LO		ANAP	COPY	copied from source data
Software Versions	0018,1020	LO	1.6.x	ANAP	COPY	copied from source data where "x" is the detailed application SW version.

Table 13: Acquisition Context Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Context Sequence	0040,0555	SQ		VNAP	COPY	copied from source data

Table 14: Raw Data Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Content Date	0008,0023	DA		ALWAYS	COPY	copied from source data
Content Time	0008,0033	TM		ALWAYS	COPY	copied from source data
Creator Version UID	0008,9123	UI		ALWAYS	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP	COPY	copied from source data

Table 15: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.66	ALWAYS	COPY	copied from source data
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Original Specialized SOP Class UID	0008,001B	UI		VNAP	COPY	copied from source data
Instance Creation Date	0008,0012	DA		VNAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		VNAP	COPY	copied from source data

Instance Number	0020,0013	IS	VNAP
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2.1.2.3. X-Ray Angiographic Image Storage SOP Class

Table 16: IOD of Created X-Ray Angiographic Image Storage Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
	Image Pixel Module	ALWAYS
	Cine Module	ALWAYS
	Multi-Frame Module	ALWAYS
	Display Shutter Module	ALWAYS
	X-Ray Image Module	ALWAYS
	X-Ray Acquisition Module	ALWAYS
	X-Ray Table Module	ALWAYS
	XA Positioner Module	ALWAYS
	DX Detector Module	ALWAYS
	VOI LUT Module	ALWAYS
SOP Common Module	ALWAYS	

Table 17: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP		
Patient ID	0010,0020	LO		VNAP		
Patient's Birth Date	0010,0030	DA		VNAP		
Patient's Sex	0010,0040	CS		VNAP		

Table 18: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		VNAP		
Study Time	0008,0030	TM		VNAP		
Accession Number	0008,0050	SH		VNAP		
Referring Physician's Name	0008,0090	PN		VNAP		
Study Instance UID	0020,000D	UI		ALWAYS		
Study ID	0020,0010	SH		VNAP		

Table 19: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP		
Series Time	0008,0031	TM		ANAP		
Modality	0008,0060	CS		ALWAYS		
Series Description	0008,103E	LO		ANAP		
Performing Physician's Name	0008,1050	PN		ANAP		

Related Series Sequence	0008,1250	SQ		ANAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS		
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP		
Series Instance UID	0020,000E	UI		ALWAYS		
Series Number	0020,0011	IS		VNAP		
Performed Procedure Step Start Date	0040,0244	DA		ANAP		
Performed Procedure Step Start Time	0040,0245	TM		ANAP		
Performed Procedure Step ID	0040,0253	SH		ANAP		

Table 20: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP		
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	where "x" is the detailed application SW version.

Table 21: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS		ANAP		
Acquisition Date	0008,0022	DA		ANAP		
Content Date	0008,0023	DA		VNAP		
Acquisition Time	0008,0032	TM		ANAP		
Content Time	0008,0033	TM		VNAP		
Instance Number	0020,0013	IS		VNAP		
Patient Orientation	0020,0020	CS		ANAP		
Lossy Image Compression	0028,2110	CS		ANAP		
Icon Image Sequence	0088,0200	SQ		ANAP		
>Samples per Pixel	0028,0002	US		ALWAYS		
>Photometric Interpretation	0028,0004	CS		ALWAYS		
>Rows	0028,0010	US		ALWAYS		
>Columns	0028,0011	US		ALWAYS		
>Bits Allocated	0028,0100	US		ALWAYS		
>Bits Stored	0028,0101	US		ALWAYS		
>High Bit	0028,0102	US		ALWAYS		
>Pixel Representation	0028,0103	US		ALWAYS		
>Pixel Data	7FE0,0010	OW/OB		ANAP		

Table 22: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		
Rows	0028,0010	US		ALWAYS		
Columns	0028,0011	US		ALWAYS		

Bits Allocated	0028,0100	US		ALWAYS		
Bits Stored	0028,0101	US		ALWAYS		
High Bit	0028,0102	US		ALWAYS		
Pixel Representation	0028,0103	US		ALWAYS		
Pixel Data	7FE0,0010	OB/OW		VNAP		

Table 23: Cine Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Cine Rate	0018,0040	IS		ANAP		
Frame Time	0018,1063	DS		ALWAYS		

Table 24: Multi-Frame Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Number of Frames	0028,0008	IS		ALWAYS		
Frame Increment Pointer	0028,0009	AT		ALWAYS		

Table 25: Display Shutter Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Shutter Shape	0018,1600	CS		ALWAYS		
Shutter Left Vertical Edge	0018,1602	IS		ALWAYS		
Shutter Right Vertical Edge	0018,1604	IS		ALWAYS		
Shutter Upper Horizontal Edge	0018,1606	IS		ALWAYS		
Shutter Lower Horizontal Edge	0018,1608	IS		ALWAYS		

Table 26: X-Ray Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS		ALWAYS		
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		
Frame Increment Pointer	0028,0009	AT		ALWAYS		
Bits Allocated	0028,0100	US		ALWAYS		
Bits Stored	0028,0101	US		ALWAYS		
High Bit	0028,0102	US		ALWAYS		
Pixel Representation	0028,0103	US		ALWAYS		
Pixel Intensity Relationship	0028,1040	CS		ALWAYS		
Lossy Image Compression	0028,2110	CS		ALWAYS		

Table 27: X-Ray Acquisition Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
KVP	0018,0060	DS		VNAP		
Exposure Time	0018,1150	IS		VNAP		
Radiation Setting	0018,1155	CS		ALWAYS		
Imager Pixel Spacing	0018,1164	DS		ANAP		
Pixel Spacing	0028,0030	DS		ALWAYS		

Table 28: X-Ray Table Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Table Motion	0018,1134	DS		VNAP		
Table Angle	0018,1138	DS		ANAP		

Table 29: XA Positioner Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Distance Source to Patient	0018,1111	DS		ANAP		
Distance Source to Patient	0018,1111	DS		ANAP		
Positioner Motion	0018,1500	CS		VNAP		
Positioner Primary Angle	0018,1510	DS		VNAP		
Positioner Secondary Angle	0018,1511	DS		VNAP		
Positioner Primary Angle Increment	0018,1520	DS		VNAP		
Positioner Secondary Angle Increment	0018,1521	DS		VNAP		

Table 30: DX Detector Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Imager Pixel Spacing	0018,1164	DS		ALWAYS		
Pixel Spacing	0028,0030	DS		ALWAYS		

Table 31: VOI LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Window Center	0028,1050	DS		ALWAYS		
Window Width	0028,1051	DS		ALWAYS		

Table 32: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Creation Date	0008,0012	DA		ANAP		
Instance Creation Time	0008,0013	TM		ANAP		
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.12.1	ALWAYS		
SOP Instance UID	0008,0018	UI		ALWAYS		
Instance Number	0020,0013	IS		ANAP		

2.1.2.4. Secondary Capture Image Storage SOP class**Table 33: IOD of Created Secondary Capture Image Storage SOP Class Instances**

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
	Patient Study Module	

Series	General Series Module	ALWAYS
Equipment	General Equipment Module	CONDITIONAL
	SC Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
	Image Pixel Module	ALWAYS
	SOP Common Module	ALWAYS

Table 34: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		ALWAYS	COPY	copied from source data
Patient ID	0010,0020	LO		ALWAYS	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		ALWAYS	COPY	copied from source data
Patient's Sex	0010,0040	CS		ALWAYS	COPY	copied from source data

Table 35: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	copied from source data
Study Time	0008,0030	TM		ALWAYS	COPY	copied from source data
Accession Number	0008,0050	SH		VNAP		
Referring Physician's Name	0008,0090	PN		VNAP	COPY	copied from source data
Study Instance UID	0020,000D	UI		ALWAYS	COPY	copied from source data
Study ID	0020,0010	SH		ALWAYS	COPY	copied from source data

Table 36: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Age	0010,1010	AS		ANAP	COPY	copied from source data

Table 37: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	COPY	copied from source data
Series Description	0008,103E	LO		ANAP	COPY	
Series Time	0008,0031	TM		ALWAYS	COPY	copied from source data
Modality	0008,0060	CS		ALWAYS	COPY	copied from source data
Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data

Series Number	0020,0011	IS		VNAP	COPY	copied from source data
Operators' Name	0008,1070	PN		ANAP	COPY	
Patient Position	0018,5100	CS		VNAP	COPY	FFS
Related Series Sequence	0008,1250	SQ		ANAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS		
>Purpose of Reference Code Sequence	0040,A170	SQ		EMPTY		
Performed Procedure Step Start Date	0040,0244	DA		ANAP	COPY	copied from source data
Performed Procedure Step Start Time	0040,0245	TM		ANAP	COPY	copied from source data
Performed Procedure Step ID	0040,0253	SH		ANAP	COPY	copied from source data
Performed Procedure Step Description	0040,0254	LO		ANAP	COPY, USER	

Table 38: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	copied from source data
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP		
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	where "x" is the detailed application SW version.

Table 39 : SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS	XA	ANAP	COPY	
Conversion Type	0008,0064	CS	WSD	ALWAYS	AUTO	
Secondary Capture Device Manufacturer	0018,1016	LO		ANAP	AUTO	
Secondary Capture Device Manufacturer's Model Name	0018,1018	LO		ANAP	AUTO	
Secondary Capture Device Software Versions	0018,1019	LO		ANAP	AUTO	

Table 40: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	ORIGINAL\ PRIMARY\ SINGLE PLANE	ALWAYS	COPY	
Acquisition Date	0008,0022	DA		VNAP	COPY	
Acquisition Number	0020,0012	IS		ANAP	COPY	copied from source data
Acquisition Time	0008,0032	TM		VNAP	COPY	
Instance Number	0020,0013	IS		VNAP	COPY	copied from source data

Patient Orientation	0020,0020	CS		VNAP	COPY	copied from source data
Image Comments	0020,4000	LT		ANAP	COPY	

Table 41: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		RGB
Planar Configuration	0028,0006	US		ALWAYS		
Rows	0028,0010	US		ALWAYS	COPY	copied from source data
Columns	0028,0011	US		ALWAYS	COPY	copied from source data
Bits Allocated	0028,0100	US	8	ALWAYS		
Bits Stored	0028,0101	US	8	ALWAYS		
High Bit	0028,0102	US	7	ALWAYS		
Pixel Representation	0028,0103	US	0000	ALWAYS	COPY	copied from source data
Pixel Data	7FE0,0010	OW/OB		ALWAYS	COPY	copied from source data

Table 42: SC Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Date of Secondary Capture	0018,1012	DA		ANAP	AUTO	
Time of Secondary Capture	0018,1014	TM		ANAP	AUTO	

Table 43: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.7	ALWAYS	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Instance Creation Date	0008,0012	DA		ANAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		ANAP	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP	COPY	copied from source data

2.1.2.5. Multi-frame True Color Secondary Capture Image Storage

Table 44: IOD of Created Multiframe True Color Secondary Capture Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	CONDITIONAL
	SC Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
	Image Pixel Module	ALWAYS

Cine Module	CONDITIONAL
Multi-Frame Module	ALWAYS
Multi-Frame Functional Groups Module	OPTIONAL
SC Multi-frame Image Module	ALWAYS
SOP Common Module	ALWAYS

Table 45: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	copied from source data
Patient ID	0010,0020	LO		VNAP	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		VNAP	COPY	copied from source data
Patient's Sex	0010,0040	CS		VNAP	COPY	copied from source data

Table 46: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		VNAP	COPY	copied from source data
Study Time	0008,0030	TM		VNAP	COPY	copied from source data
Accession Number	0008,0050	SH		VNAP		
Referring Physician's Name	0008,0090	PN		VNAP	COPY	copied from source data
Study Instance UID	0020,000D	UI		ALWAYS	COPY	copied from source data
Study ID	0020,0010	SH		VNAP	COPY	copied from source data

Table 47: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP	COPY	copied from source data
Series Time	0008,0031	TM		ANAP	COPY	copied from source data
Modality	0008,0060	CS		ALWAYS	COPY	copied from source data
Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data
Series Number	0020,0011	IS		ANAP	COPY	copied from source data
Related Series Sequence	0008,1250	SQ		ANAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS		
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP		

Table 48: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	copied from source data
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP		
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	where "x" is the detailed application SW version.

Table 49 : SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS		ANAP		
Conversion Type	0008,0064	CS	WSD	ALWAYS		

Table 50: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Number	0020,0013	IS		VNAP		
Patient Orientation	0020,0020	CS		VNAP		
Burned in Annotation	0028,0301	CS		ANAP		

Table 51: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		
Planar Configuration	0028,0006	US		ALWAYS		
Rows	0028,0010	US		ALWAYS	COPY	copied from source data
Columns	0028,0011	US		ALWAYS	COPY	copied from source data
Bits Allocated	0028,0100	US	8	ALWAYS		
Bits Stored	0028,0101	US	8	ALWAYS		
High Bit	0028,0102	US	7	ALWAYS		
Pixel Representation	0028,0103	US	0000	ALWAYS	COPY	copied from source data
Pixel Data	7FE0,0010	OW/OB		ALWAYS	COPY	copied from source data

Table 52: Cine Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame Time	0018,1063	DS		ALWAYS	COPY	copied from source data

Table 53: Multi-Frame Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Number of Frames	0028,0008	DS		ALWAYS	COPY	copied from source data
Frame Increment Pointer	0028,0009	AT		ALWAYS	COPY	copied from source data

Table 54: Multi-Frame Functional Groups Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Number	0020,0013	IS		ALWAYS	COPY	copied from source data
Number of Frames	0028,0008	IS		ALWAYS	COPY	copied from source data

Table 55: SC Multi-Frame Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame Increment Pointer	0028,0009	AT		ALWAYS	COPY	copied from source data
Burned In Annotation	0028,0301	CS		ALWAYS	COPY	copied from source data

Table 56: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.7.4	ALWAYS	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Instance Creation Date	0008,0012	DA		ANAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		ANAP	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP	COPY	copied from source data